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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/805,347	03/22/2004	Tsung Mien Liang	BHT-3117-189	8995

7590 11/16/2005
TROXELL LAW OFFICE PLLC
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5205 LEESBURG PIKE
FALLS CHURCH, VA 22041

EXAMINER

SIMONE, CATHERINE A

ART UNIT	PAPER NUMBER
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1772

DATE MAILED: 11/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

2/1

Office Action Summary	Application No. 10/805,347	Applicant(s) LIANG, TSUNG MIEN	
	Examiner Catherine Simone	Art Unit 1772	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character not mentioned in the description: 24. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sadlo et al. (US 5,670,223) in view of Suzuki et al. (WO 03/047062 A1).

Regarding claims 1-5, Sadlo et al. discloses a support core ribbon for a cold shrink tube (see col. 2, lines 17-38), the cold shrink tube including an elastomeric tube and a tubular support core deposited in the elastomeric tube for supporting the elastomeric tube, the tubular support core formed by a continual ribbon wound helically, the helically wound ribbon having two formed edges of two longitudinal portions interlocking with each other (see col. 3, lines 1-7 and col. 4, lines 36-62) and welded together by means of ultrasonic welding after interlocking with each other (see col. 3, lines 10-12), and one of the two edges (Fig. 4, #34) is provided with a first straight groove formed in a lower surface of the ribbon (Fig. 4, #42) and defined by a first projecting portion (Fig. 4, #38), and the other of the two edges (Fig. 4, #32) is provided with a second straight groove in an upper surface of the ribbon (Fig. 4, #40) and defined by second projection (Fig. 4, #36). Although Sadlo et al. teaches spaced perforations extending through the ribbon, Sadlo et al. fails to teach a single-v-shaped groove formed in one outer surface of the ribbon wherein the groove has a lowest point of a thickness far smaller than that of the ribbon and has a connecting force far less than that of the two formed edges of two longitudinal portions interlocking with each other. Suzuki et al. teaches that it is old and well-known in the analogous art to have a v-shaped groove provided in an outer surface of a ribbon forming a tubular support core (Fig. 5, elements 34 and 34') for the purpose of providing a tearable core member capable of not deteriorating the operability for mounting the same to the objective and of quickly and accurately removing the core member from the elastic tubular member and that is usable in a cold shrink tube device wherein a risk is avoidable in that the ribbon-like cut piece of the torn core member body is entangled with the objective to which the cold shrink tube device is mounted or cut during the tearing operation to realize the stable tearing operation. Therefore, it would have been obvious to one of ordinary skill in the art at the time the applicant's invention was made to have provided the outer surface of the ribbon in Sadlo et al. with a single v-shaped groove as

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suggested by Suzuki et al. in order to provide a tearable core member capable of not deteriorating the operability for mounting the same to the objective and of quickly and accurately removing the core member from the elastic tubular member and that is usable in a cold shrink tube device wherein a risk is avoidable in that the ribbon-like cut piece of the torn core member body is entangled with the objective to which the cold shrink tube device is mounted or cut during the tearing operation to realize the stable tearing operation.

Conclusion

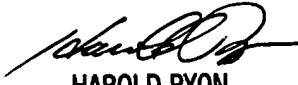
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Catherine Simone whose telephone number is (571)272-1501. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CAS

Catherine A. Simone
Examiner
Art Unit 1772
November 13, 2005


HAROLD PYON
SUPERVISORY PATENT EXAMINER
1772

11/14/05